

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please retain the claims in their present form in accordance with the following:

1. (original) A communication system for controlling optical communication, the system comprising:

a sending unit including: supervisory signal sending control means for controlling the sending of a supervisory signal for having supervisory control of optical communication and a drive supervisory signal for controlling the driving of an optical fiber amplifier for performing optical amplification by using a non-linear optical phenomenon in an optical fiber, and sending stop means for receiving a stop signal and for stopping the sending of the drive supervisory signal; and

a receiving unit including: the optical fiber amplifier, drive control means for receiving the drive supervisory signal and for controlling the driving of the optical fiber amplifier, and stop signal sending means for sending the stop signal to the sending unit after the optical fiber amplifier being driven.

2. (original) The communication system according to claim 1, wherein the supervisory signal sending control means sets the transmission rate of the drive supervisory signal to a small value and sends the drive supervisory signal so that the drive supervisory signal can be received in a state in which the optical fiber amplifier is not operating.

3. (original) The communication system according to claim 2, wherein the supervisory signal sending control means includes a source of the supervisory signal and a source of the drive supervisory signal which are separate from each other and performs the simultaneous or switching sending of the supervisory signal and the drive supervisory signal the transmission rates of which are different from each other.

4. (original) The communication system according to claim 2, wherein the supervisory signal sending control means uses one signal source which can control a transmission rate variably to perform the switching sending of the supervisory signal and the drive supervisory signal the transmission rates of which are different from each other.

5. (original) The communication system according to claim 1, wherein the supervisory signal sending control means sets the wavelength of the drive supervisory signal to a value being within the range of an empty band in a transmission band for a main optical signal and sends the drive supervisory signal.

6. (original) The communication system according to claim 5, wherein the supervisory signal sending control means includes a source of the supervisory signal and a source of the drive supervisory signal which are separate from each other and performs the simultaneous or switching sending of the supervisory signal and the drive supervisory signal the wavelengths of which are different from each other.

7. (original) The communication system according to claim 5, wherein the supervisory signal sending control means uses one signal source which can control a wavelength variably to perform the switching sending of the supervisory signal and the drive supervisory signal the wavelengths of which are different from each other.

8. (original) The communication system according to claim 1, wherein the supervisory signal sending control means amplifies only the drive supervisory signal and sends the drive supervisory signal so that the drive supervisory signal can be received in a state in which the optical fiber amplifier is not operating.

9. (original) A sending apparatus for controlling sending in optical communication, the apparatus comprising:

supervisory signal sending control means for controlling the sending of a supervisory signal for having supervisory control of optical communication and a drive supervisory signal for

controlling the driving of an optical fiber amplifier for performing optical amplification by using a non-linear optical phenomenon in an optical fiber; and

sending stop means for receiving a stop signal and for stopping the sending of the drive supervisory signal.

10. (original) A receiving apparatus for controlling receiving in optical communication, the apparatus comprising:

an optical fiber amplifier for performing optical amplification by using a non-linear optical phenomenon in an optical fiber;

drive control means for controlling the driving of the optical fiber amplifier; and

stop signal sending means for sending a stop signal to a unit on the sending side after the optical fiber amplifier being driven.